

2019

Skills-to-Course Matrix

Engineering/Dafting Crosswalk1b

Glencoe High School

Portland Community College

Apr-19

Engineering Technology Cluster

Instructions: 1) Enter the Program of Study name above. 2) Enter your high school name. 3) Enter the community college name. 4) Enter the date. 5) Click on the cell for Course 1 Name, Course 2 Name, etc., and replace with your POS course names--secondary and first year of post-secondary. 6) Enter school course numbers. 7) Enter NCES code for the course (secondary only). 8) Enter number of credits awarded. 9) Identify those courses that trigger the TSA for this POS. 10) Finally, check those standards that are taught with intent and purpose, and are assessed in each course.
Note: The optional Focus Area tabs below are included for those POSs that have a very specific industry focusare using those skill sets for multiple options in a Progam of Study or if you want to use another set of industry validated standards.

			Drafting 1	Drafting 1	Drafting 2	Drafting 2	Architecture 1	Architecture 1	Architecture 2	Architecture 2	[Course 9 Name]	[Course 10 Name]
Cluster Knowledge and Skills (CTE standards)			2110231	2110232	2110241	2110242	210311	2110312	2110321	2110322	[Course Number]	[Course Number]
			21107	21107	21107	21107	21103	21103	21103	21103	21103	[NCES Code]
			0.5	0.5	0.5	0.5	0.5	5	0.5	0.5	[# of Credits]	[# of Credits]
CCTC*	Code Number	KS Statement	n	n	y	y	n	n	y	y	[TSA--Y or N?]	[TSA--Y or N?]
	EN01	Use effective communication skills with a variety of audiences.			x	x			x	x		
	EN02	Exhibit integrity and professionalism in engineering cluster occupations.			x	x						
	EN03	Use technology such as computers and design software to solve engineering problems.			x	x						
	EN04	Understand and use applied mathematics and science for engineering cluster careers.	x	x	x	x			x	x		
	EN05	Develop and implement a career plan within the engineering cluster occupations.										
	EN06	Use teamwork, critical thinking and problem solving skills to address complex problems in engineering.			x	x						
	EN07	Understand the role of engineering in society throughout history and how it is affected by economics, regulations, politics, and corporate culture.										
	EN08	Apply design principles and life-cycle methodology to create products, systems, and processes using appropriate technology.										
	EN09	Understand the impact personal characteristics, such as creativity, resourcefulness, the ability to visualize and the ability to think abstractly have on engineers and their ability to design.										
	EN10	Understand and adhere to safety, health, and environmental standards and regulations.			x	x			x	x		

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[illegible]

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Portland Community College

Apr-19

Civil & Infrastructure Engineering Systems Focus Area

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Engineering/Drafting Crosswalk1b

Glencoe High School

Portland Community College

Apr-19

Electrical Engineering Systems Focus Area

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Engineering/Dafting Crosswalk1b

Glencoe High School
Portland Community College
Apr-19

Manufacturing Engineering Systems Focus Area

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			21107	21107	21107	21107	21103	21103	21103	21103	[NCES Code]	[NCES Code]
			0.5	0.5	0.5	0.5	0.5	5	0.5	0.5	[# of Credits]	[# of Credits]
CCTC*	Code Number	KS Statement	n	n	y	y	n	n	y	y	[TSA--Y or N?]	[TSA--Y or N?]
	ENMN01	Use knowledge of material science to solve problems appropriate to manufacturing engineering.	x	x	x	x						
	ENMN02	Demonstrate knowledge of planning and logistics requirement in manufacturing engineering.	x	x	x	x						
	ENMN03	Demonstrate an understanding of quality control.										
	ENMN04	Understand and apply basics of supply chain management.	x	x	x	x						
	ENMN05	Understand and apply knowledge of manufacturing processes and practices.	x	x	x							
	ENMN06	Demonstrate basic knowledge of packaging within manufacturing.	x	x	x	x						

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Mechanical Engineering Systems Focus Area

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